

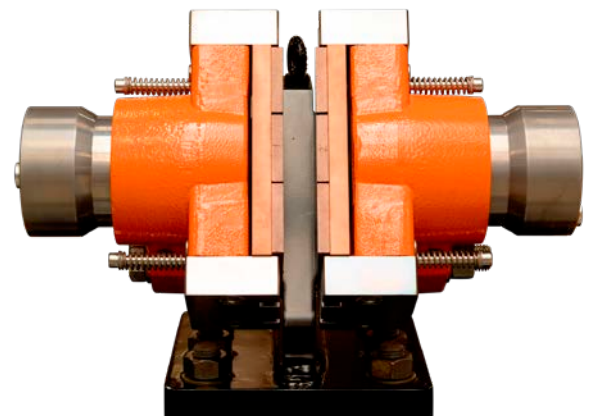
## DISC BRAKES

### BSFJ 3000 DUAL SPRING

#### HYDRAULIC CALIPER BRAKES

Emergency brakes are the last safety device to prevent a falling load and are installed directly on the flange of the drums. These brakes are applied in case of overspeed detection, power failure, mechanical transmission breakage or emergency stop controlled by operator.

The BSFJ 3000 is a Dual Spring is a fail-safe disc brake designed for heavy-duty industrial applications. It features a spring-applied and hydraulically released mechanism, ensuring reliable performance and safety in critical operations. It is known for its robust construction. Its dual-spring design enhances durability and reduces maintenance intervals, making it a dependable choice for demanding environments.



Brake	Clamping Force $F_c$ [kN]			Pressure [MPa]	
	at airgap 1 mm	at airgap 2 mm	at airgap 3 mm	Operating	Maximum
BSFC 633	110	97	84	17.5	23.0
BSFC 644	140	126	112	21.0	23.0



# DISC BRAKES

## BSFJ 3000 DUAL SPRING

CALCULATION FUNDAMENTALS	DUAL SPRING (DS)
Weight of brake with standard bracket, including brake pads and bolt set	Approx. 171 kg
Weight of brake without bracket, brake pads and bolt set	Approx. 110 kg
Overall dimensions (without bracket)	253 x 310 x 764 (+C) mm
Brake pad width	135 mm
Brake pad thickness for new brake pad	32 mm
Brake pad area (organic) per pad	29,400 mm <sup>2</sup>
Maximum wear of pad (organic)	10 mm (*) (= 22 mm thick)
Brake pad area (sintered) per pad	28,000 mm <sup>2</sup>
Maximum wear of pad (sintered)	10 mm (*) (= 22 mm thick)
Minimum brake disc diameter	650 mm
Maximum hub/drum diameter	Do - 296 mm
Nominal coefficient of friction	$\mu = 0.4$
Total piston area - each caliper half	84.8 cm <sup>2</sup>
Total piston area - each brake	169.6 cm <sup>2</sup>
Volume for each brake at 1mm stroke	17 cm <sup>3</sup>
Volume for each brake at 3mm stroke	50.9 cm <sup>3</sup>
Actuating time (guide value for calculation)	0.3 sec
Pressure connections/port	G1/4
Drain connection port	G1/8
Recommended pipe size	10/8 mm
Maximum operating pressure	23.0 MPa
Operating temperature range (For temperatures outside this range contact Svendborg Brakes)	from -20°C to +70C

(C = disc thickness)

(\*) The thickness stated is the minimum/worn brake pad thickness allowed before replacement.

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